## **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 200.8

Client ID: M115463 Client: Date Received: 12/14/06 Project: Lab ID: Date Extracted: 12/19/06 12/20/06 Data File: Date Analyzed: Matrix: Water Instrument: Units: ug/L (ppb) Operator:

 Lower
 Upper

 % Recovery:
 Limit:
 Limit:

 83
 60
 125

Alaskan Copper Works

612164-01 10x

ICPMS1

612164-01 10x.042

PO# M115463, F&BI 612164

Concentration
ug/L (ppb)

Chromium 403
Nickel 285
Copper 357
Zinc <50

Internal Standard:

Germanium

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank
Date Received: Not Applicable
Date Extracted: 12/19/06
Date Analyzed: 12/20/06
Matrix: Water
Units: ug/L (ppb)

Internal Standard:

Germanium

Client: Project: Lab ID: Data File:

Operator:

Alaskan Copper Works PO# M115463, F&BI 612164

Lab ID: I6-452 mb
Data File: I6-452 mb.030
Instrument: ICPMS1

btb

% Recovery:

Lower Limit: 60 Upper Limit: 125

 $\begin{array}{cccc} & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\$ 

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 12/27/06 Date Received: 12/14/06

Project: Metro Self Monitor, PO# M115463, F&BI 612164

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS BY EPA METHOD 200.8

Laboratory Code: 612165-01 (Duplicate)

				Relative		13433
		Sample	Duplicate	Percent	Acceptan	ice
Analyte	Reporting Unit	s Result	Result	Difference	Criteria	3
Chromium	ug/L (ppb)	7.36	7.63	4	0-20	
Nickel	ug/L (ppb)	1.76	1.45	19	0-20	
Copper	ug/L (ppb)	<1	<1	nm	0-20	
Zinc	ug/L (ppb)	7.85	<5	nm	0-20	

Laboratory Code: 612165-01 (Matrix Spike)

		Spike	Sample	Percent Recovery	Acceptance
Analyte	Reporting Units	Level	Result	MS	Criteria
Chromium	ug/L (ppb)	20	7.36	93 b	50-150
Nickel	ug/L (ppb)	20	1.76	89	50-150
Copper	ug/L (ppb)	20	<1	92	50-150
Zinc	ug/L (ppb)	50	7.85	86	50-150

Laboratory Code: Laboratory Control Sample

	Sinabili alibe	Snike			e
Analyte	Reporting Units		LCS	Criteria	
Chromium	ug/L (ppb)	20	100	70-130	414
Nickel	ug/L (ppb)	20	103	70-130	
Copper	ug/L (ppb)	20	104	70-130	
Zinc	ug/L (ppb)	50	99	70-130	
	Analyte Chromium Nickel Copper Zinc	Chromium ug/L (ppb) Nickel ug/L (ppb) Copper ug/L (ppb)	Chromium         ug/L (ppb)         20           Nickel         ug/L (ppb)         20           Copper         ug/L (ppb)         20	Analyte         Reporting Units         Spike Level         Recover LCS           Chromium         ug/L (ppb)         20         100           Nickel         ug/L (ppb)         20         103           Copper         ug/L (ppb)         20         104	Analyte         Reporting Units         Level         LCS         Criteria           Chromium         ug/L (ppb)         20         100         70-130           Nickel         ug/L (ppb)         20         103         70-130           Copper         ug/L (ppb)         20         104         70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 27, 2006

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 14, 2006 from the Metro Self Monitor, PO# M115463, F&BI 612164 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU1227R.DOC

Samples received at 20 °C

612164	SAMPLE CHAIN OF C	USTODY	ME 12/14	1/06	AIY
Send Report To (FRALD Thompson	SAMPLERS (signature)	The state of the s		Page#TURNAROUND	of
Company ALASKAN Coggres Works	PROJECT NAME/NO.  MOSTRO SECS	monitan	PO# m 115463	Standard (2 Weeks)	
Address 628 S. HAREN ST					
City, State, ZIP SEATTLE LIVE 98134	REMARKS			SAMPLE DISP  D Dispose after 30 da	
Phone # 206-382-8379 Fax # 206-382-430	og Kesh die	X XZEU	UD.	Return samples     Will call with instr	uctions

Lab ID	Date	Time	Sample Typ	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOC. by 8260	SVOCe by 8270	Ch ME 20		, )		,	No	tes
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## **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

**Duplicate Copy** 

December 27, 2006

## **INVOICE # 06ACU1227-1**

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M115463, F&BI 612164 - Results of testing requested by Gerry Thompson for material submitted on December 14, 2006.

1 sample analyzed for Total Chromium, Copper, Nickel and Zind	:	
by Method 200.8 @ \$80 per sample	\$	80.00
선생님 - 회원는 실취는 물리들은 회사들은 전체는 회원은 발생하는 발생들을 받는 말을 걸었다.		
Rush Charges (1 week) 50% of \$80.00		40.00
일본요를 잃으면 하는 사람들 시간들은 가장 지원을 지고하는 일반은 경기로 하다.		
Amount Due	\$	120.00

FEDERAL TAX ID #(b) (6)